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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,483	03/31/2006	Andrew Vince	FP 22044	8199
	7590 09/16/200 ER GILSON & LIONE	EXAMINER		
P.O. BOX 1039		HAGEMAN, MARK		
CHICAGO, IL 60610			ART UNIT	PAPER NUMBER
			3653	
			MAIL DATE	DELIVERY MODE
			09/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Commence	10/541,483	VINCE, ANDREW					
Office Action Summary	Examiner	Art Unit					
	Mark Hageman	3653					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>06 Ju</u>	ılv 2005						
· <u> </u>							
	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
.—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
·	x parte Quayre, 1000 0.B. 11, 10						
Disposition of Claims							
4)⊠ Claim(s) <u>1-56</u> is/are pending in the application.	4) Claim(s) <u>1-56</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) <u>1-56</u> are subject to restriction and/or e	8) Claim(s) 1-56 are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<u> </u>	priority under 25 H S C & 110(a)	(d) or (f)					
a) All b) Some * c) None of:	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No							
					<u> </u>		
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1, 2, 20, 30, 47, drawn to methods and apparatus using a medium density separator.

Group 2, claim(s) 1, 3, 20, 30, 47, drawn to methods and apparatus using a classifying separator.

Group 3, claim(s) 1, 4, 13, 20, 21, 30, 47, 48, 50 drawn to methods and apparatus using a heavy medium separator.

Group 4, claim(s) 1, 5, 6, 20, 22, 30, 31, 32, 47, 49 drawn to methods and apparatus determining a set of values.

Group 5, claim(s) 1, 7, 20, 23, 30, 33, 39, 47, drawn to methods and apparatus monitoring the density of the medium.

Group 6, claim(s) 1, 8, 14, 15, 20, 26, 27, 30, 34, 42, 43, 47, 51 52 drawn to methods and apparatus monitoring the pressure of the medium.

Group 7, claim(s) 1, 9, 20, 30, 35, 47, 53, 54 drawn to methods and apparatus monitoring the feed rate of the medium and particles.

Group 8, claim(s) 1, 10, 16, 17, 20, 24, 25, 30, 36, 40, 41, 47, drawn to methods and apparatus monitoring the overall feed rate.

Group 9, claim(s) 1, 11, 18, 19, 20, 28, 29, 30, 37, 44, 45, 46, 47, 55, 56, drawn to methods and apparatus monitoring the ratio of volume or mass flow.

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Group 10, claim(s) 1, 12, 20, 30, 38, 47, drawn to methods and apparatus monitoring two or more parameters.

- 2. The inventions listed as Groups 1-12 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The independent claims lack a special technical features as they are methods or apparatus that provide feedback control for a separator which is known in the art. This being the case the various features of the set forth sets of dependent claims exhibit the different inventive features as mentioned above.
- 3. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Hageman whose telephone number is (571) 272-3027. The examiner can normally be reached on M-F 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Mackey can be reached on (571) 272-6916. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patrick H. Mackey/ Supervisory Patent Examiner, Art Unit 3653

MCH